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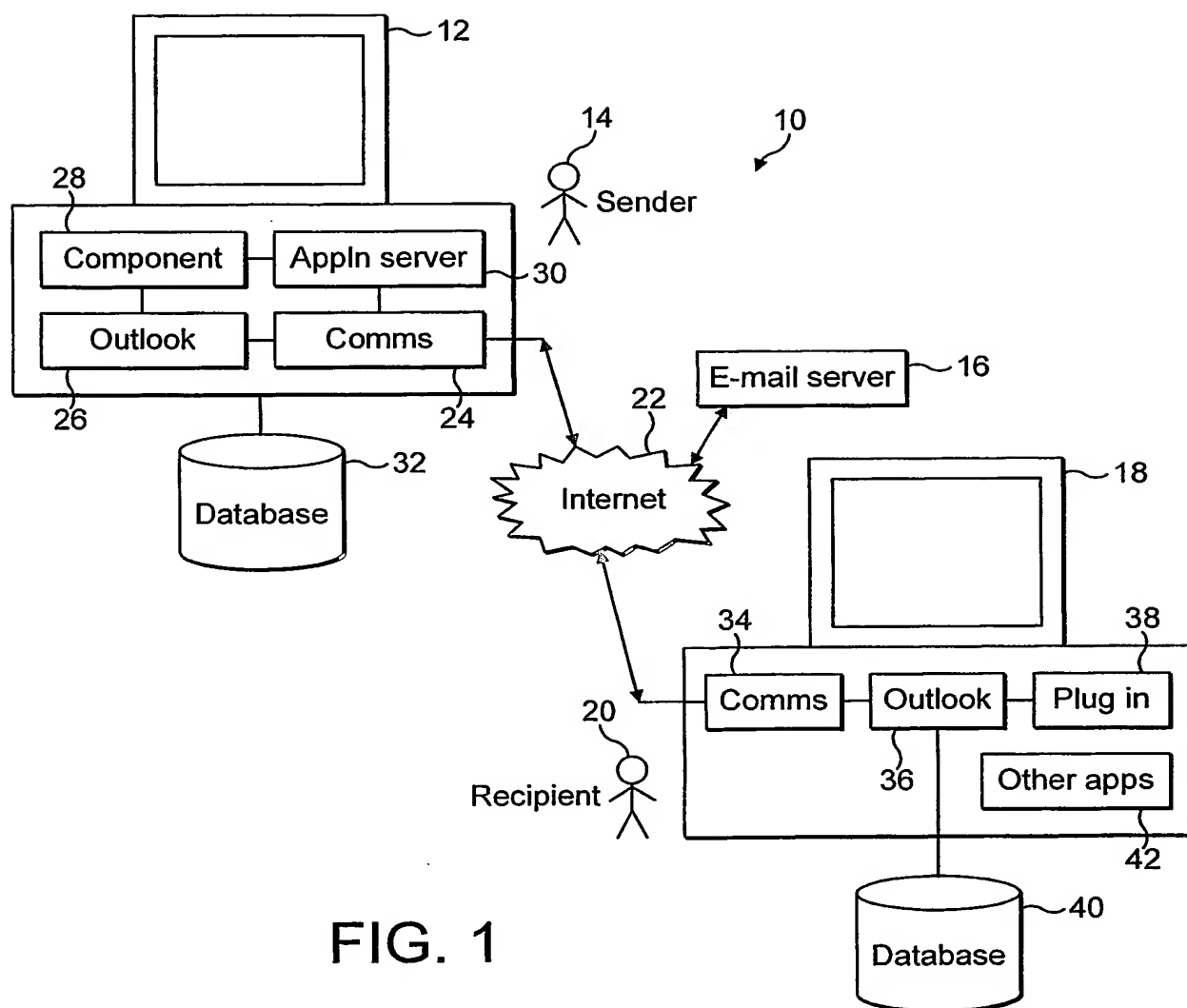
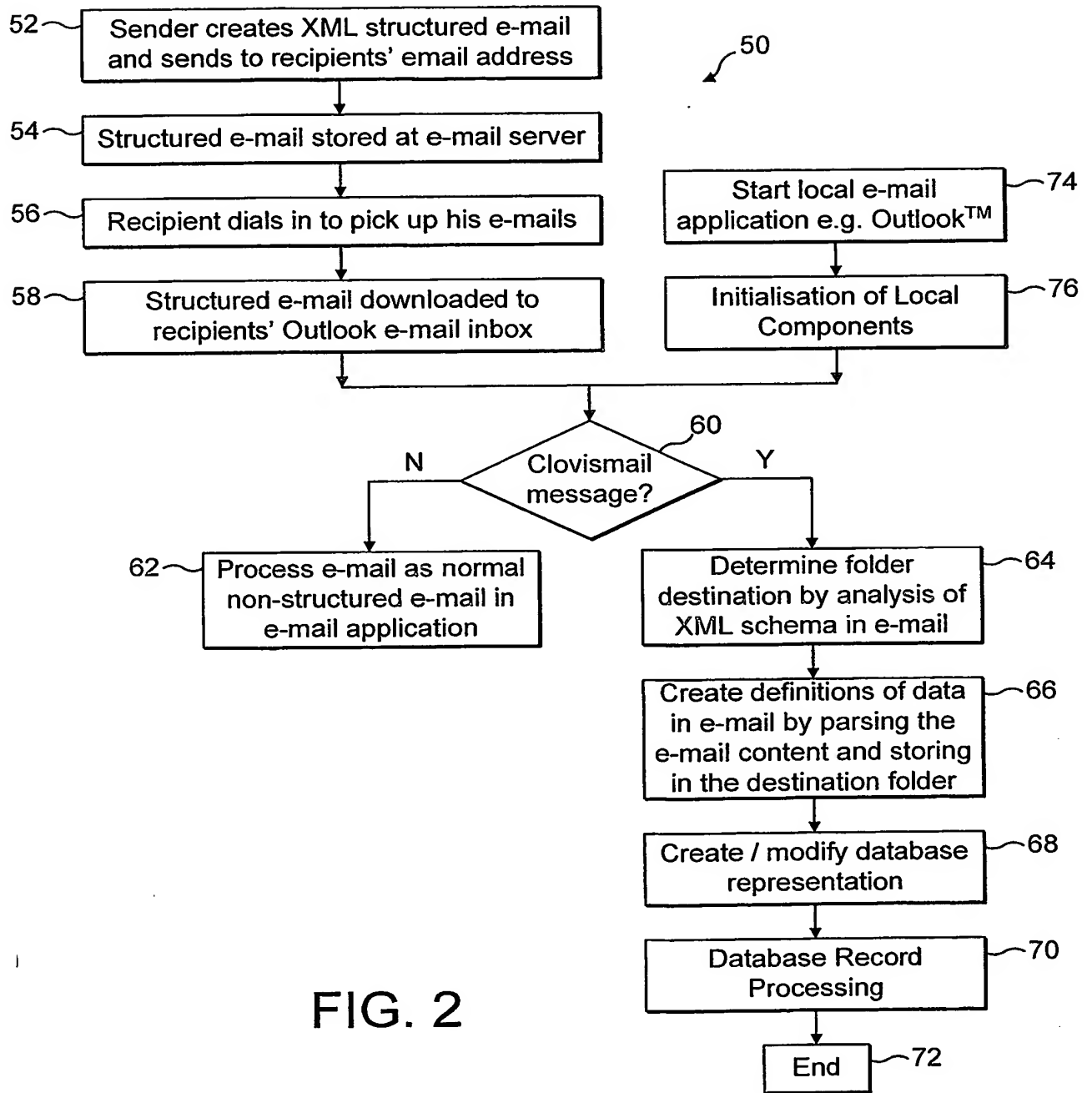
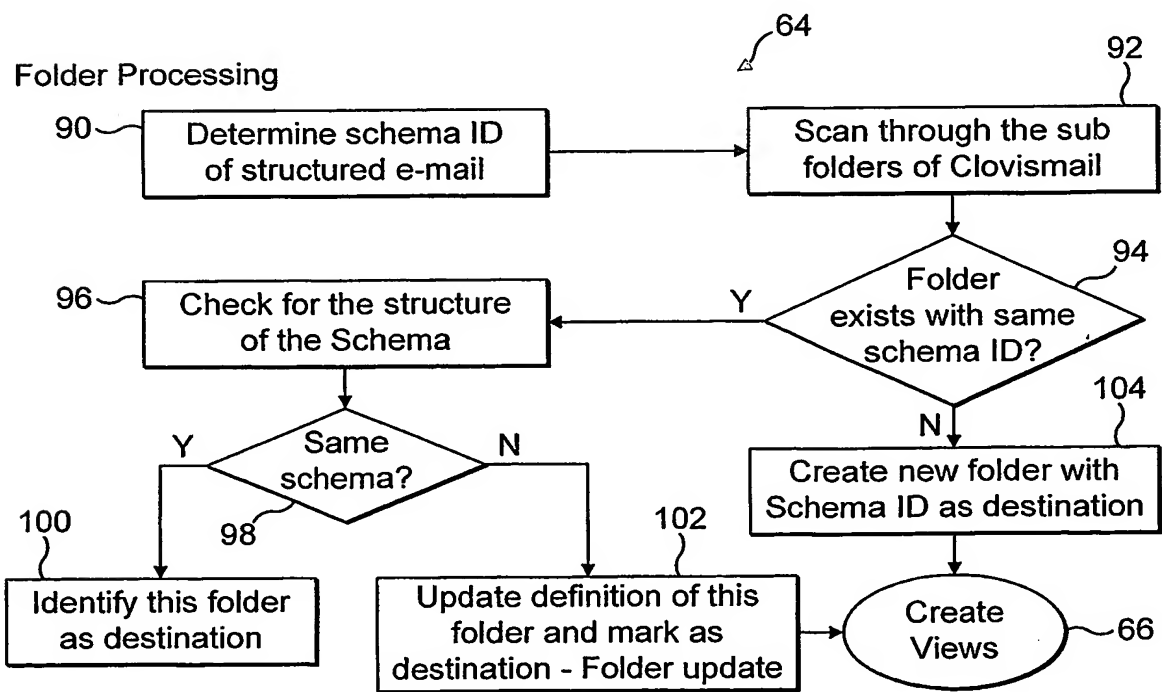
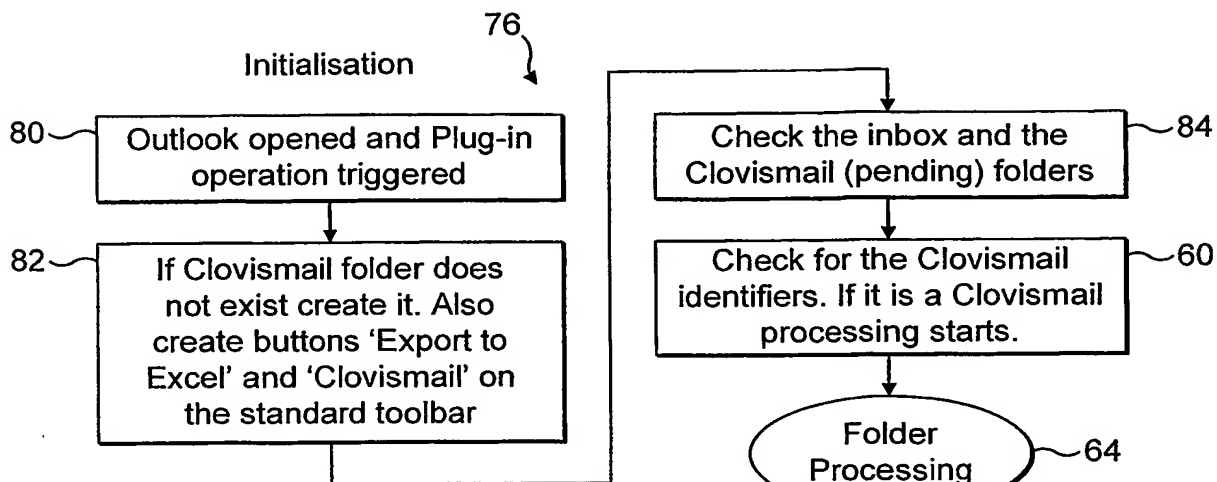


FIG. 1

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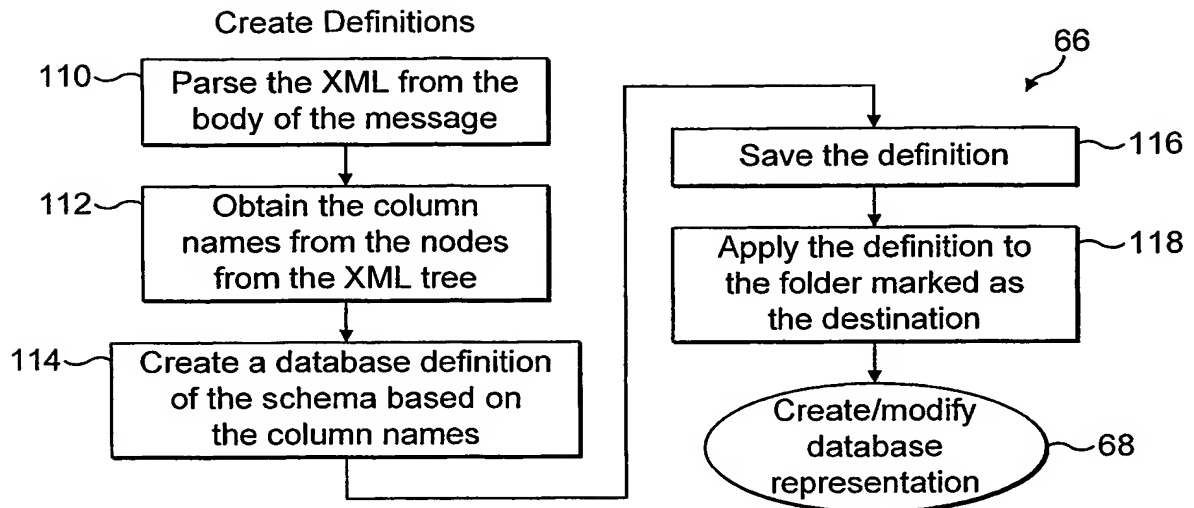


FIG. 5

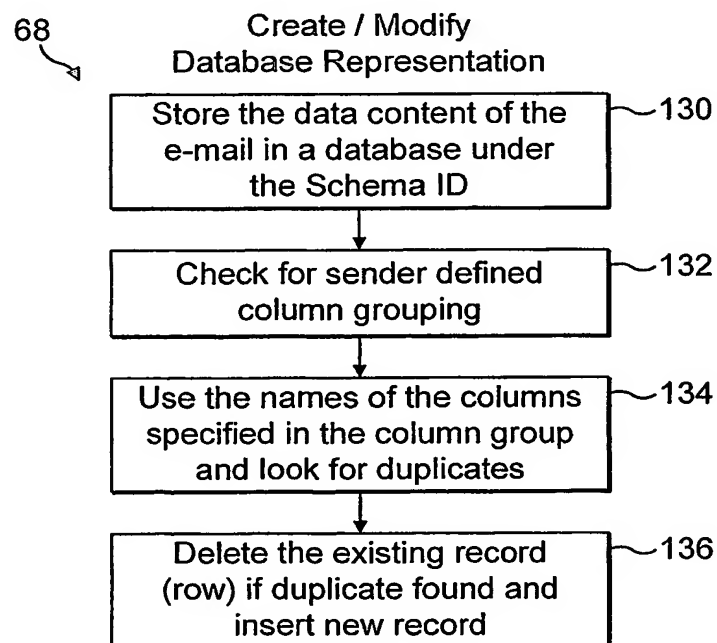


FIG. 6

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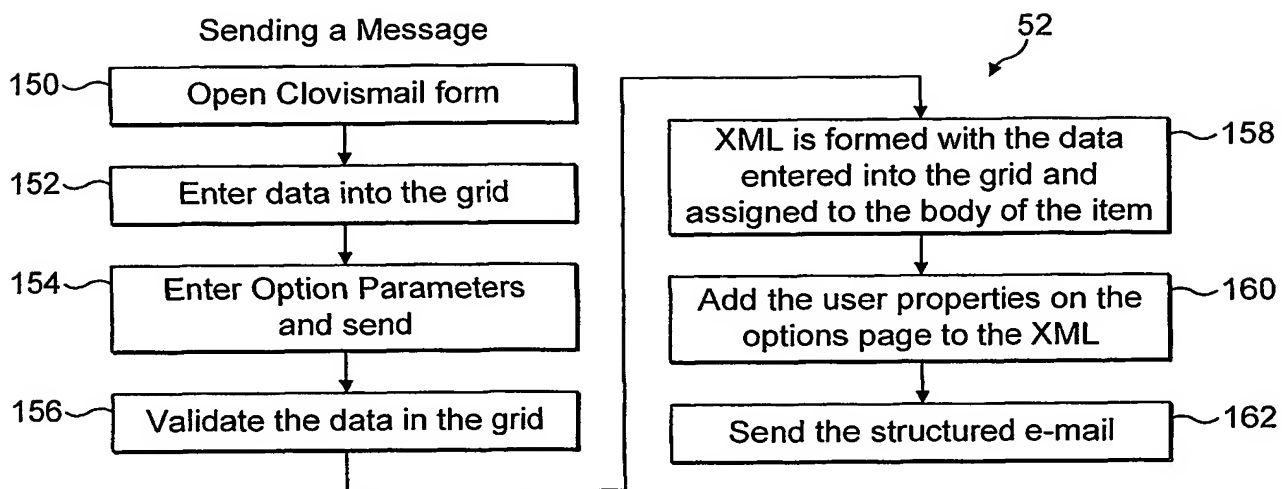


FIG. 7

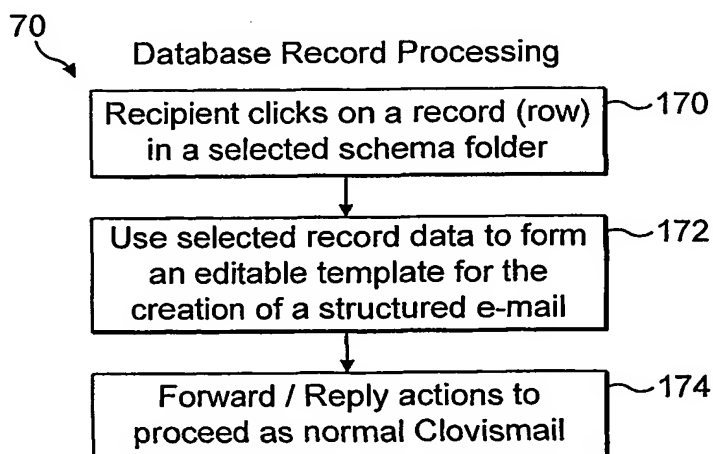


FIG. 8

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Ticker	Coupon	Maturity	Buyer / Seller	Size (MM)	Price	Spread	Benchmark	Last Updated
BSNSA	5.625	07/25/03	B	5	102.47	+42	BTNS 4.5 07/12/03	14:54 05/12/01
ULVR	5.375	12/01/03	S	2.5	102.64	+29	OBL 3.5 11/11/03	14:52 06/12/01
F	5.625	02/02/04	S	5	100.59	+163	OBL 3.25 2/17/04	14:47 06/12/01
BRITEL	5.625	02/16/04	B	7	101.89	+118	OBL 3.25 2/17/04	14:44 06/12/01
REP	3.750	02/23/04	B	5	97.36	+135	THA 6 11/12/03	14:42 06/12/01
FRTEL	5.750	03/14/04	S	5	102.09	+135	BTNS 3.5 07/12/04	14:40 06/12/01
IMPTOB	5.375	03/15/04	S	5	101.27	+107	OBL 3.25 2/17/04	14:39 06/12/01
FIAT	3.750	03/31/04	B	5	97.04	+130	OBL 4.425 09/27/04	14:38 06/12/01

FIG. 9

```

<SCHEMA>
  <FIELD1 Type = "text">Ticker</FIELD1>
  <FIELD2 Type = "text">Coupon</FIELD2>
  etc...
  <FIELD8 Type = "text">Last Updated</FIELD8>
  <TABLE KEY>
    <Ticker>
    <Coupon>
    <Maturity>
  etc...
  </TABLE KEY>
  <SCHEMA ID = "Trading Axes">
</SCHEMA>

<DATA>
  <RECORD1>
    <Ticker>BSNSA</Ticker>
    <Coupon>5.625</Coupon>
    etc....
  </RECORD1>
  <RECORD2> etc.....
</DATA>

```

FIG. 10

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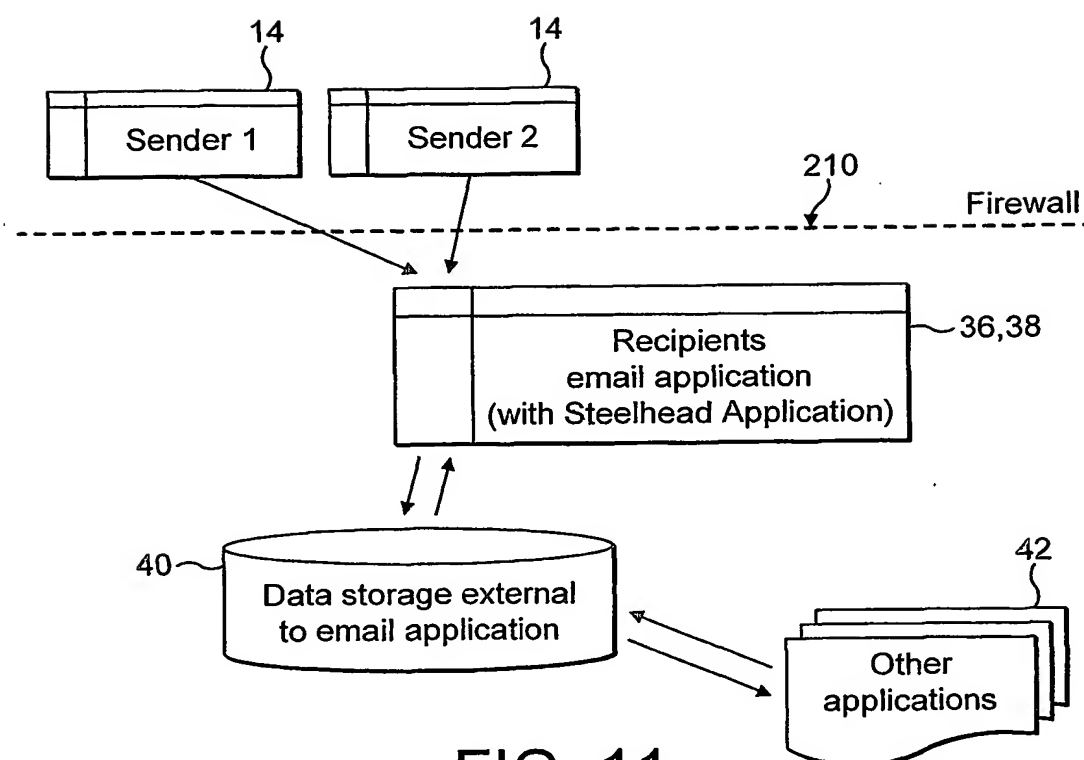


FIG. 11

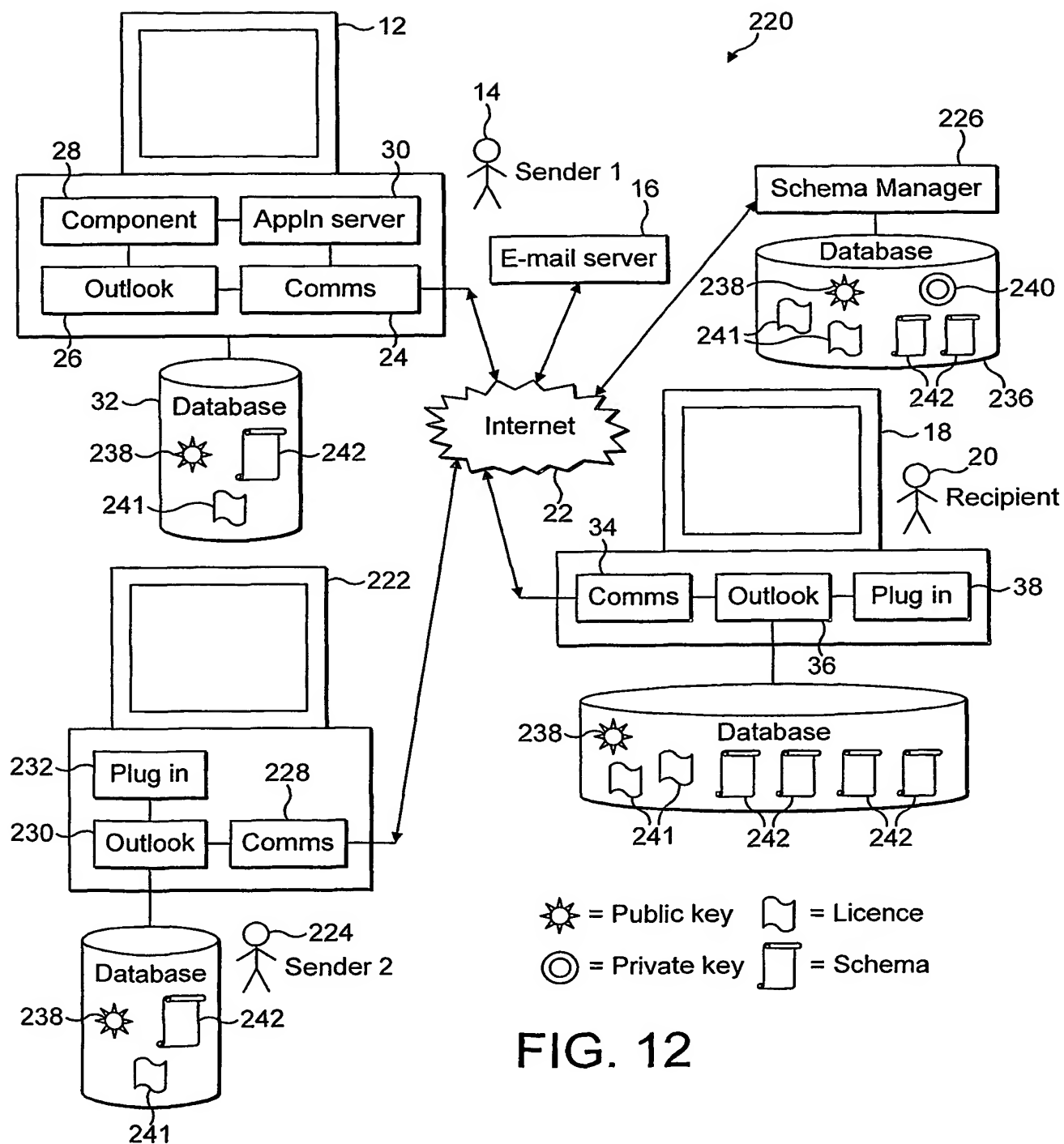


FIG. 12

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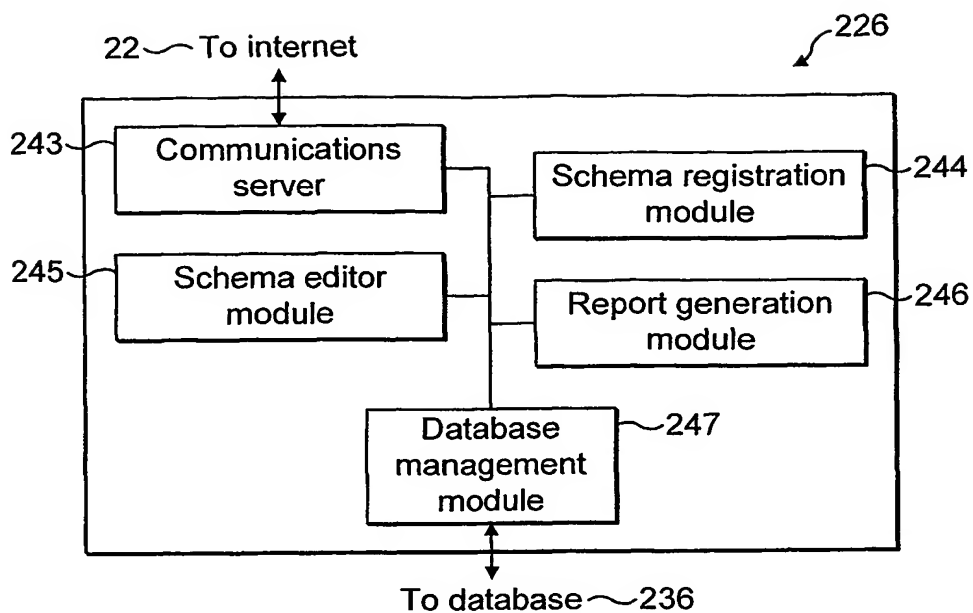


FIG. 13

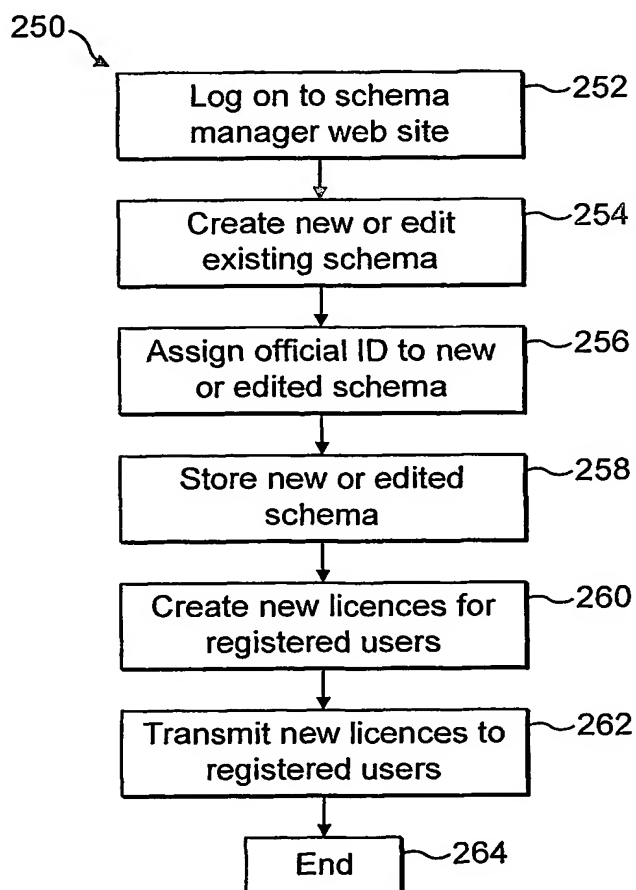


FIG. 14

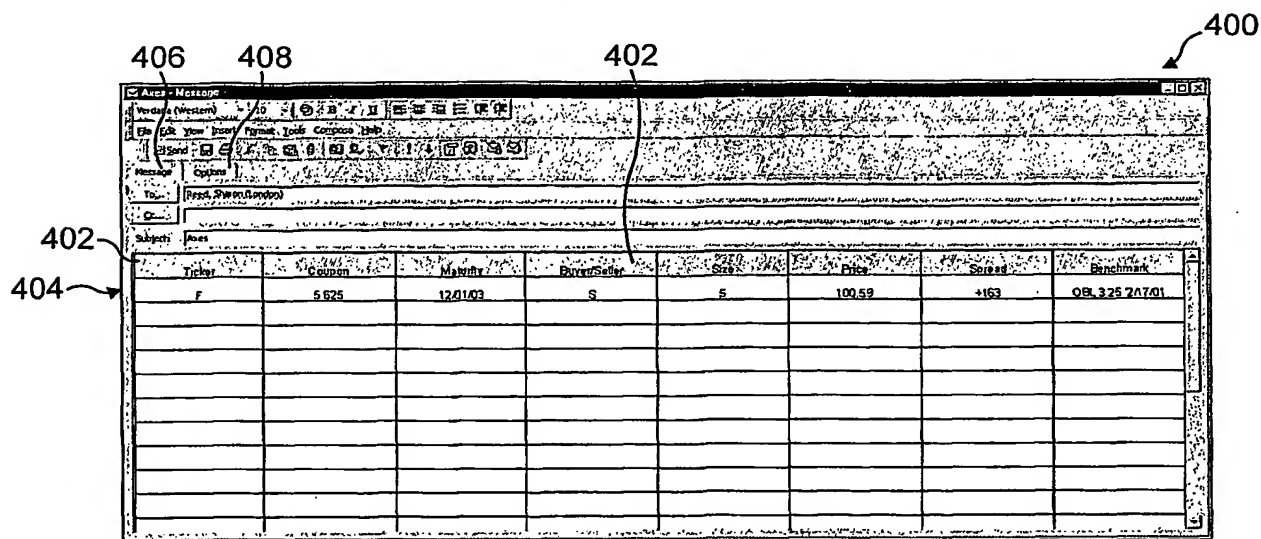


FIG. 15

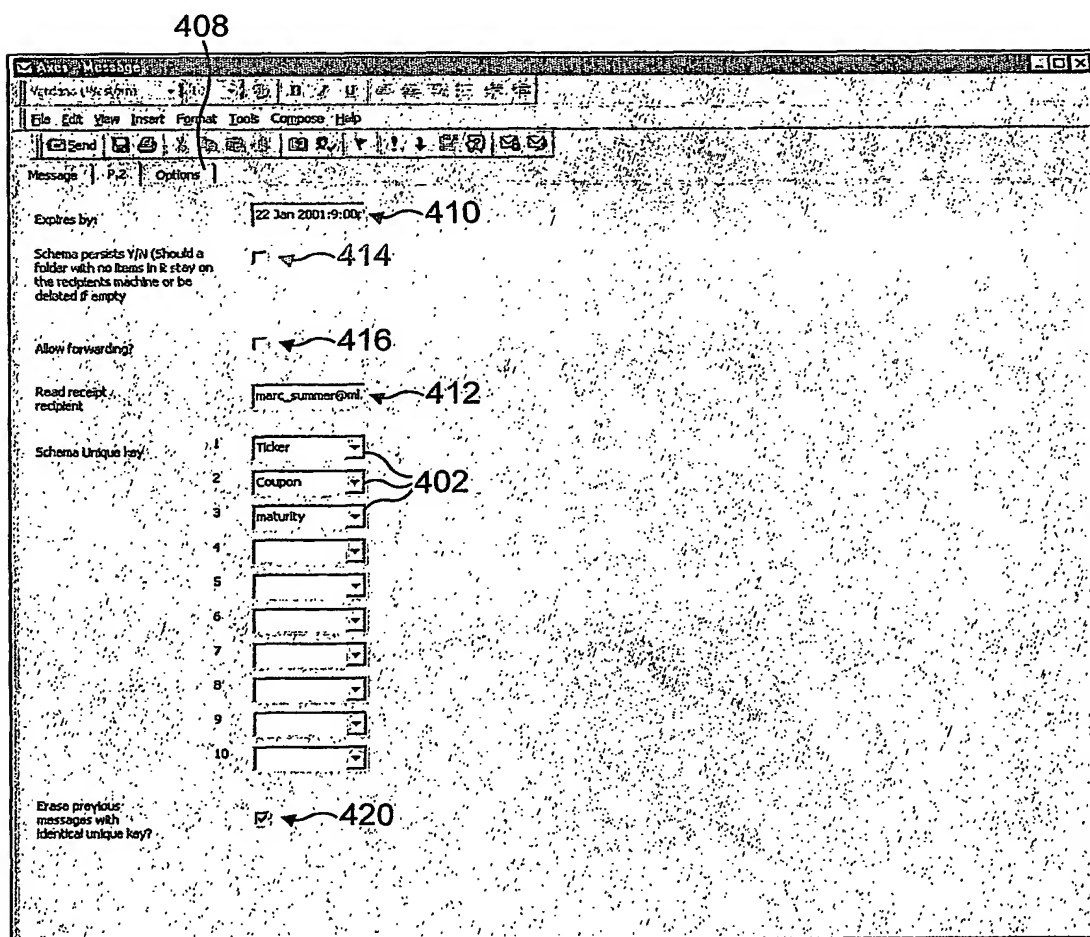


FIG. 16

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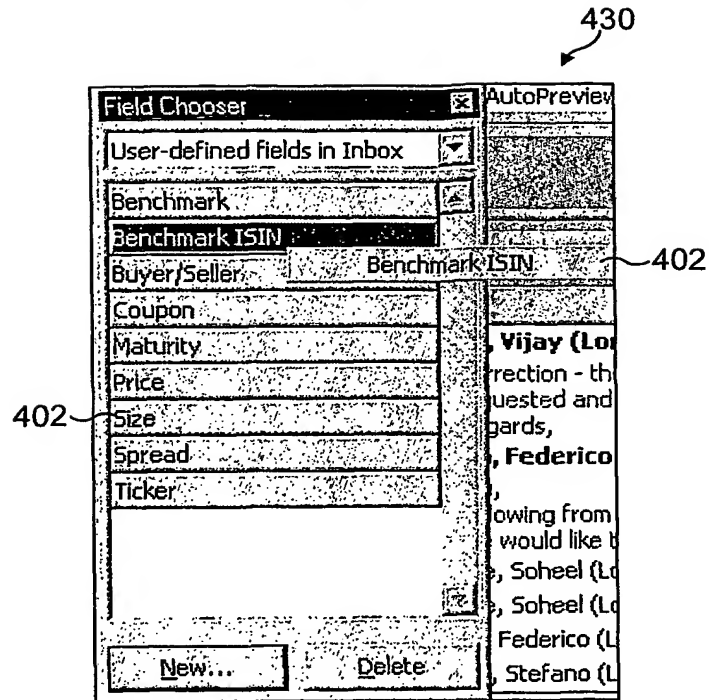


FIG. 17

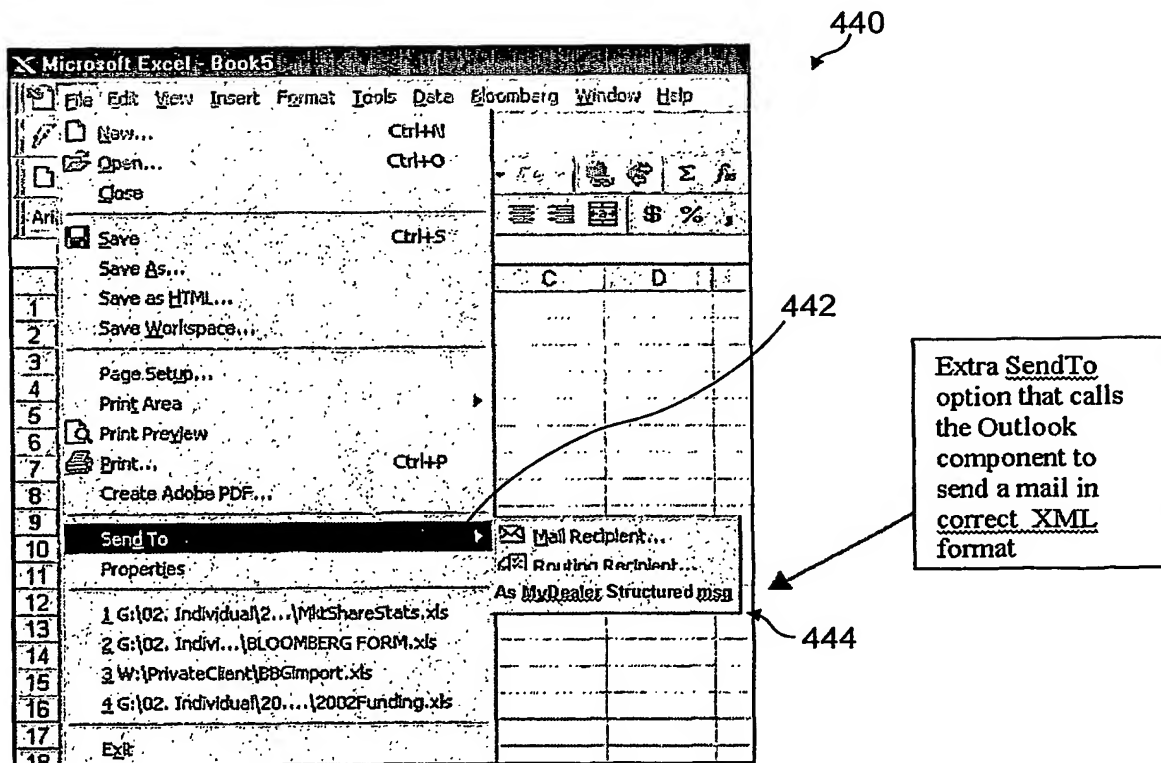


FIG. 18

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```

Pseudo Code
..
CheckInBox
For Each Message
  If Message.Type = "Data"
    NewData = Decrypt (Message.Data)
    ParseData NewData
    Save NewData, NewData.DataName
  Else
    ..
  End if
Else
  ..
End if
Next

```

FIG. 19a

Department Manager PC / Filename = Salaries (original)

Sender, Name, Title, Age, Address, PostCode, Salary
 HR(NY), J. Doe, Mr, 33, 1 Anywhere, 10005, 28000
 HR (Boston), E. Kennedy, Chappaquidick Drive, 12345, 350000
 HR(London), A. Smith, Ms, 25, 1 Armageddon, SN9 3AA, 22000

FIG. 19b

New Data from sender "HR London":						
Name	Title	Age	Address	PostCode	Salary	
A. Smith	Ms	25	1 Armageddon	SN9 3AA	29000	
J. Smith	Mr	45	45 Jones Drive	SN1 3AA	18000	

FIG. 19c

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E-mail

To:	Department.Manager@client.com
From:	HR.department.London@agency.com
Subject:	Salary change and new hire

This e-mail contains data for your Steelhead software. If you can see this message, please goto www.steelhead.com/downloads to download the software.

```

<steelhead>
  <senderlicence>2h8d739487f9s8377h4hnnzx</senderlicence>
  <mailtype>data</mailtype>
  <uniquerecordID>Name,Title</uniquerecordID>
  <data>
    <dataname>Salaries</dataname>
    <row>
      <action>update</action>
      <Name>A. Smith</Name>
      <Title>Ms</Title>
      <Age>25</Age>
      <Address>1 Armageddon</Address>
      <PostCode>SN9 3AA</PostCode>
      <Salary>29000</PostCode>
    </row>
    <action>new</action>
    <Name>J. Smith</Name>
    <Title>Mr</Title>
    <Age>45</Age>
    <Address>45 Jones Drive</Address>
    <PostCode>SN1 3AA</PostCode>
    <Salary>18000</PostCode>
  </data>
</steelhead>

```

FIG. 19d

Department Manager PC / Filename = Salaries (new)

Sender	Name	Title	Age	Address	PostCode	Salary
HR(NY)	J. Doe	Mr	33	1 Anywhere	10005	28000
HR (Boston)	E. Kennedy			Chappaquidick Drive	12345	350000
HR(London)	A. Smith	Ms	25	1 Armageddon	SN9 3AA	29000
HR(London)	J. Smith	Mr	45	45 Jones Drive	SN1 3AA	18000

FIG. 19e

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Pseudo Code

```
..
LoadProgramFlowFile
..
CheckInBox
For Each Message
  If Message.Sender = "upgrades@steelhead.com"
    If Message.Subject = "Program-Flow Update"
      NewFileData = Decrypt (Message.Body)
      SaveProgramFlowFile (NewFileData)
      LoadProgramFlowFile
    Else
      ..
    End if
  Else
    ..
  End if
Next
```

FIG. 20a

Program-Flow File (original)

```
[menus]
Delete = True
Sort   = False
Filter = False

[authorisation]
ExpiryDate = 31/12/2002
CheckLicense = False
EnforceExpiry = False
AllowSending = False

[windows]
AllowMultipleWindows = False
```

FIG. 20b

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E-mail	
To:	user@client.com
From:	upgrades@steelhead.com
Subject:	Program-Flow Update
<pre> [menus] Delete = False Archive = True Sort = True Filter = True [authorisation] ExpiryDate = 31/12/2002 CheckLicense = True EnforceExpiry = True AllowSending = False [windows] AllowMultipleWindows = True </pre>	

FIG. 20c

Program-Flow File (new)	
<pre> [menus] Delete = False Archive = True Sort = True Filter = True [authorisation] ExpiryDate = 31/12/2002 CheckLicense = True EnforceExpiry = True AllowSending = False [windows] AllowMultipleWindows = True </pre>	

FIG. 20d

Original Menu	New Menu
Delete	<div style="display: flex; justify-content: space-between;"> Archive > </div> <div style="display: flex; justify-content: space-between;"> Sort > </div> <div style="display: flex; justify-content: space-between;"> Filter > </div>

FIG. 20e

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Pseudo Code

```
[Shell Program]
If FlagToLoadNewExeOnStartup
  Replace MainProgram with TemporaryExe
End If
Start MainProgram

[Main Program]
CheckInBox
For Each Message
  If Message.Sender = "upgrades@steelhead.com"
    If Message.Subject = "Full Update"
      NewFileData = Decrypt (Message.Body)
      Save NewFileData as TemporaryExe
      Set FlagToLoadNewExeOnStartup
    Else
      ..
    End if
  Else
    ..
  End if
Next
```

FIG. 21a

E-mail

To:	user@client.com
From:	upgrades@steelhead.com
Subject:	Full Update

Vndiofuynvlsvhn3987593e87nsk
Vnsdhjf577120n3945nbkshh93nb
Djeu348579ene9756bnseoodh93nr
Djndieurytnowiun39937970udnsk

FIG. 21b

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Pseudo Code

```
..
CheckInBox
For Each Message
  If Message.Sender = "commands@steelhead.com"
    CommandData = Decrypt (Message.Body)
    Get Command and Parameters from CommandData
    If Message.Subject = "Steelhead"
      Select Command
        LOGFILE:
          LogFileOutput (param1, param2))
        ERRORREPORT:
          Send E-mail ("errorreports@steelhead.com",
                      Errorreport(param1))
        BACKUPFILES:
          ..
      End Select
    Else
      ..
    End if
  Else
    ..
  End if
Next
```

FIG. 22a

E-mail

To:	user@client.com
From:	commands@steelhead.com
Subject:	Steelhead

BACKUPFILES DATA,temp.dat
TESTDATA temp.dat,errors.log

FIG. 22b

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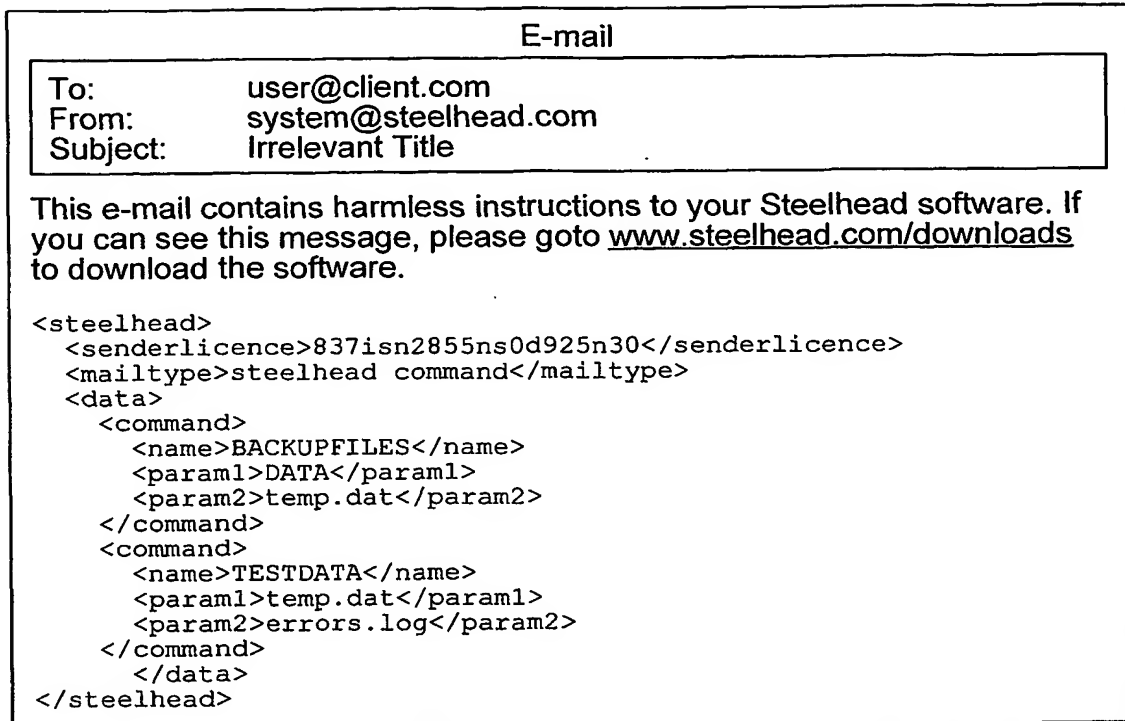


FIG. 22c

Pseudo Code

```

..
CheckInBox
For Each Message
  If Message.Sender = "commands@steelhead.com"
    CommandData = Decrypt (Message.Body)
    Get Command and Parameters from CommandData
    If Message.Subject = "Steelhead"
      ..
      Else
        Execute (Message.Subject) with Command and Parameters
      ..
    End if
  Else
    ..
  End if
Next

```

FIG. 23a

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E-mail	
To:	user@client.com
From:	commands@steelhead.com
Subject:	HomeSecurity.exe
HOME SECURITY, LIGHTS GARAGE, ON, NOW ALARM ON, 3416	

FIG. 23b

E-mail	
To:	user@client.com
From:	system@steelhead.com
Subject:	Instructions for HomeSecurity
<p>If you can see this message, please goto www.steelhead.com/downloads to download the software.</p> <pre> <steelhead> <senderlicence>jf89fjds72938fs09983gnsk</senderlicence> <mailtype>external command</mailtype> <data> <program> <name>HomeSecurity.exe</name> <command> <name>LIGHTS</name> <param1 name="location">GARAGE</param1> <param2 name="state">ON</param2> <param3 name="time">NOW</param3> </command> </program> </data> </steelhead> </pre>	

FIG. 23c